

Amendments to the Claims

Listing of claims:

1. (Currently Amended) A gray level conversion method, applied to a device comprising:

a conversion section for obtaining a conversion signal by applying a conversion process to an input signal in accordance with a first—conversion characteristic; and

a display element for executing a display with a gray level in accordance with a second—display characteristic with respect to a value of said conversion signal,

wherein said first—conversion characteristic is set by using—a processing device, which uses said second—display characteristic and a third—desired characteristic with respect to said gray level in association with said input signal, wherein said third—desired characteristic is arbitrarily set obtained by the processing device, said method comprising the steps of:

(a) finding a value of said gray level given by said third desired characteristic in response to a set value of the input signal;

(b) finding said second—display characteristic using said conversion signal obtained from said conversion section by adopting, as said first—conversion characteristic, a

characteristic that makes said input signal and said conversion signal virtually equal to each other;

(c) finding the value of said conversion signal that gives said value of said gray level found at said step (a) in accordance with said second display characteristic;

(d) setting said first conversion characteristic based on a relationship between said value of said input signal set at said step (a) and the value of the conversion signal found at said step (c).

2-3. (Canceled)

4. (Previously presented) The gray level conversion method according to claim 1, wherein said value of said input signal is a digital value in said step (d).

5. (Original) The gray level conversion method according to claim 1, wherein said display device is a liquid crystal display.

6. (Original) The gray level conversion method according to claim 5, wherein said gray level is luminance.

7. (Currently Amended) A display device comprising:

a processing device for obtaining a desired characteristic;
a conversion section for obtaining a conversion signal by applying a conversion process to a supplied signal in accordance with a first characteristic, said supplied signal being one of an input signal and a digital signal;

a display element for executing a display with a gray level in accordance with a second characteristic with respect to a value of the conversion signal; and

a control section for generating said digital signal, said digital signal and said input signal being supplied to said conversion section exclusively from one another,

wherein said first processing device sets the conversion characteristic is set in said conversion section based upon said second display characteristic and a third conversion characteristic with respect to said gray level in association with said supplied signal,

wherein said third characteristic is arbitrarily set display characteristic is determined by adopting, as said conversion characteristic, a characteristic that makes said supplied signal and said conversion signal virtually equal.

10. (Original) The display device according to claim 7,
wherein said display device is a liquid crystal display.

11. (Original) The display device according to claim 10,
wherein said gray level is luminance.